MA36R(85)-1

CURRENT INDUSTRIAL REPORTS

Electromedical Equipment and Irradiation Equipment (Including X-Ray)

1985

U.S. Department of Commerce
BUREAU OF THE CENSUS

MA36R(85)-1
Issued July 1986

SUMMARY OF FINDINGS

During 1985, the total value of shipments of electromedical and irradiation equipment totaled $4,335.2 million. This represents a 2-percent decrease from the 1984 total value of $4,432.9 million. The 1985 figure includes medical x-ray equipment, $1,111.7 million, a decrease of 11 percent from 1984; diagnostic equipment, $752.9 million, a decrease of 7 percent from 1984; and therapeutic equipment, $845.6 million, a decrease of 8 percent from 1984.

A description of the survey methodology and other related information appears on page 8.

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Table 1. VALUE OF SHIPMENTS OF ELECTROMEDICAL EQUIPMENT AND IRRADIATION EQUIPMENT, BY CLASS OF PRODUCT: 1980 TO 1985

(Millions of dollars)

Product code[1]	Product description	1985	1984	1983	1982	1981	1980
36931	X-ray and other irradiation equipment	1,631.3	1,757.7	1,543.5	1,342.2	1,003.8	800.0
36933	Electromedical equipment	2,704.1	2,675.2	2,556.8	2,419.1	1,936.9	1,612.7

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Table 2. QUANTITY AND VALUE OF SHIPMENTS OF ELECTROMEDICAL AND IRRADIATION EQUIPMENT: 1985 AND 1984

(Quantity in number of units; value in thousands of dollars)

Product code	Product description	Number of companies	1985		1984	
			Quantity	Value	Quantity	Value
3693	X-ray, electromedical, and electrotherapeutic apparatus	(NA)	(X)	(X)	(X)	(X)
36931 —	Irradiation equipment, including X-ray, beta-ray, gamma-ray, and nuclear (medical, dental, industrial, and scientific)	66	(X)	1,631,301	(X)	1,757,692
	Medical X-ray equipment:					
	Diagnostic:					
36931 02	Digital radiography equipment	4	393	56,851	r416	r59,925
36931 03	Computerized axial tomography (CT or CAT Scan)	5	506	513,235	r564	666,393
36931 04	Other diagnostic X-ray equipment	11	3,215	435,162	3,291	420,251
36931 05	Therapeutic	7	790	106,456	r785	r96,510
36931 09	Dental X-ray equipment	6	12,674	45,606	r11,545	r37,904
36931 13	Industrial and scientific X-ray equipment, excluding gamma and beta-ray equipment	11	a2,997	61,609	a2,532	52,546
36931 17	X-ray equipment accessories	33	(X)	114,397	(X)	137,947
36931 21	X-ray tubes (sold separately)	14	61,252	171,877	57,282	158,582
36931 25	Parts for X-ray equipment (sold separately)	12	(X)	28,267	(X)	26,432
36931 29	All other irradiation equipment, including gamma and beta-ray equipment	15	(X)	97,841	(X)	r101,202
36933 —	Electromedical diagnostic, therapeutic, and patient monitoring equipment, except irradiation equipment	133	(X)	2,704,077	(X)	2,675,193
	Diagnostic:					
36933 11	Electrocardiograph (ECG)	12	a15,420	a96,434	15,863	r117,582
36933 13	Electroencephalograph (EEG)	2	a752	a13,469	a r1,223	a19,595
36933 15	Electromyograph (EMG)	4				
36933 17	Untrasonic scanning devices	11	a5,172	a186,755	r9,046	r294,220
36933 21	Audiological equipment	7	(X)	12,275	(X)	11,533
36933 23	Endoscopic equipment (bronchoscope, cystoscope, proctosigmoidoscope, colonoscope, etc.)	4	a2,175	a10,647	a r2,499	a r10,244
36933 25	Respiratory analysis equipment	6	1,580	15,150	r1,893	r17,051
36933 27	All other diagnostic equipment	36	(X)	a263,409	(X)	254,131
36933 18	Nuclear magnetic resonance imaging devices (NMR)	5	287	154,752	145	81,226
	Therapeutic:					
36933 31	Pacemakers	8	83,958	304,098	r102,479	r370,558
36933 33	Defibrillators	10	12,795	104,333	10,392	r90,667
36933 35	Electrosurgical equipment	10	(X)	80,245	(X)	80,536
36933 37	Diathermy apparatus (short wave and microwave)	6	(X)	71,388	(X)	r65,452
36933 39	Dialyzers (includes machines and equipment)	5				
36933 43	Ultrasonic therapeutic equipment	8	(X)	27,147	(X)	r31,706
36933 45	All other therapeutic equipment	34	(X)	258,426	(X)	280,321
	Patient monitoring:					
36933 51	Intensive care/coronary care units, including component modules such as temperature, blood pressure, and pulse	20	(X)	337,119	(X)	r280,223
36933 53	Perinatal monitoring	5	(X)	55,839	(X)	r50,875
36933 55	Respiratory monitoring	8				
36933 57	All other patient monitoring equipment	26	(X)	248,158	(X)	r245,696
	Surgical support systems:					
36933 71	Heart-lung machines (excluding iron lungs)	4				
36933 73	Blood-flow systems	5	(X)	181,115	(X)	r129,521
36933 75	All other surgical support systems	12				
36933 91	Parts and accessories for diagnostic, therapeutic, monitoring, and surgical support systems (sold separately)	48	(X)	283,318	(X)	r244,056
	Electronic research, development, test, and evaluation (receipts or billings, not reported as shipments of specific products):					
99980 42	Systems	3	(X)	20,065	(X)	8,419
99980 43	Equipment and subassemblies	5				
99980 44	Component parts	2	(X)	7,561	(X)	11,933
99980 46	Basic scientific electronic research	3				

Note: The percent of estimation of each item is indicated as follows (see "Description of Survey" for a discussion of estimation of missing reports): a15 to 25 percent of this item is estimated.

(NA) Not available. r Revised by 5 percent or more from previously published figures. (X) Not applicable.

Table 3. VALUE OF SHIPMENTS OF ELECTROMEDICAL AND IRRADIATION EQUIPMENT REPORTED IN ANNUAL SURVEY MA36R COMPARED WITH 1984 ANNUAL SURVEY OF MANUFACTURES AND 1982 CENSUS OF MANUFACTURES

(Millions of dollars)

Product code	Product description	1984			1982	
			Annual Survey of Manufactures			
		MA36R	Value	Standard error of estimate[1] (percent)	MA36R	Census of Manufactures
3693	X-ray, electromedical, and electrotherapeutic apparatus	(X)	4,781.6	(X)	(X)	3,834.2
36931	Irradiation equipment	1,757.7	1,946.6	1	1,342.2	1,355.9
36933	Other electromedical equipment	2,675.2	2,768.1	1	2,419.1	2,433.9
36930 00	X-ray and electromedical equipment n.s.k., typically for establishments with more than 5 employees	(2)	66.9	(X)	(2)	17.9
36930 02	X-ray and electromedical equipment n.s.k., typically for establishments with less than 5 employees					26.5

Note: In the 1982 Census of Manufactures, shipments data for establishments of small companies (typically those with fewer than 5 employees) for industry 3693 were estimated from administrative records data rather than collected on census questionnaires. These shipments are included in product code 36930 02. Products not adequately identified by detail product were coded to the appropriate industry (four-digit) followed by "000."

N.s.k. Not specified by kind. (X) Not applicable.

[1]The annual survey of manufactures percentage standard errors shown are the approximate relative standard errors of the estimates of level. A more detailed description of the standard error of estimate is given in the introduction of the annual survey of manufactures, Value of Product Shipments, M84(AS)-2, under "Qualifications of the Data."

[2]Detail data available only for the census of manufactures. A substantial portion of these data are derived from administrative records. See note above.

Table 4. SHIPMENTS, IMPORTS, EXPORTS, AND APPARENT CONSUMPTION OF ELECTROMEDICAL AND IRRADIATION EQUIPMENT: 1985 AND 1984

(Value in thousands of dollars)

Product code	Product description	Manufacturers' shipments value, f.o.b. plant	Exports of domestic merchandise		Percent exports to manufacturers' shipments	Imports for consumption, value in foreign country[1] [4]	Apparent consumption value[5]	Percent imports to apparent consumption
			Value at port[1] [2]	Estimated producers' value[3]				
	1985							
36931 --	X-ray and other irradiation equipment.....	1,631,301	269,425	221,575	14	547,238	1,956,964	28
36933 --	Electromedical equipment.....	2,704,077	891,890	733,490	27	573,197	2,543,784	23
	1984							
36931 --	X-ray and other irradiation equipment.....	1,757,692	275,878	226,882	13	486,380	2,017,190	24
36933 --	Electromedical equipment.....	2,675,193	823,241	677,033	25	400,705	2,398,865	17

[1] For comparison of SIC-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 7.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

[3] These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1981 which are published in Origin of Exports of Manufactured Products, M81(AS)-5, appendix B. The adjustment factor for products corresponding to industry group 369, miscellaneous electrical equipment, is 0.8224.

[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[5] Apparent consumption is derived by subtracting the estimated producers' price of exports from the sum of manufacturers' shipments and imports for consumption.

Table 5A. EXPORT SHIPMENTS OF ELECTROMEDICAL AND IRRADIATION EQUIPMENT: 1985

(Quantity in units; value in thousands of dollars)

Export number	Product description	Quantity	Value
709.1605	Electromedical pacemakers	176,437	49,792
709.1610	Electromedical diathermy units	327	380
709.1615	Electromedical ultrasonic therapeutic devices	57,145	9,586
709.1620	Other electromedical therapeutic apparatus, including surgical support apparatus	(NA)	138,914
709.1655	Electrocardiographs	8,473	16,753
709.1660	Electroencephalographs	463	1,840
709.1665	Complete patient monitoring systems incorporating component modules for monitoring functions such as temperature, blood pressure, and pulse	(NA)	61,215
709.1670	Other electrical apparatus, except therapeutic	(NA)	392,454
709.1690	Parts for electromedical apparatus	(NA)	220,955
709.6120	X-ray tubes	24,589	25,200
709.6140	Parts for X-ray tubes	(NA)	3,518
709.6320	Other X-ray apparatus, for medical or dental use	(NA)	175,787
709.6340	Other X-ray apparatus, other than for medical or dental use	(NA)	42,236
709.6620	Apparatus based on the use of radiations, for medical or dental use, and parts thereof	(NA)	22,685

See footnotes at end of table 5B.

Table 5B. EXPORT SHIPMENTS OF ELECTROMEDICAL AND IRRADIATION EQUIPMENT: 1984

(Quantity in units; value in thousands of dollars)

Export number	Product description	Quantity	Value
709.1605	Electromedical pacemakers	203,460	45,868
709.1610	Electromedical diathermy units	1,022	731
709.1615	Electromedical ultrasonic therapeutic devices	99,998	13,455
709.1620	Other electromedical therapeutic apparatus, including surgical support apparatus	(NA)	132,094
709.1655	Electrocardiographs	7,630	13,390
709.1660	Electroencephalographs	389	1,784
709.1665	Complete patient monitoring systems incorporating component modules for monitoring functions such as temperature, blood pressure, and pulse	(NA)	63,626
709.1670	Other electrical apparatus, except therapeutic	(NA)	366,239
709.1690	Parts for electromedical apparatus	(NA)	186,054
709.6120	X-ray tubes	18,690	18,398
709.6140	Parts for X-ray tubes	(NA)	3,576
709.6320	Other X-ray apparatus, for medical or dental use	(NA)	178,199
709.6340	Other X-ray apparatus, other than for medical or dental use	(NA)	36,857
709.6620	Apparatus based on the use of radiations, for medical or dental use, and parts thereof	(NA)	38,848

(NA) Not available.

Source: Bureau of the Census report EM 546, U.S. Exports.

Table 6A. IMPORTS FOR CONSUMPTION OF ELECTROMEDICAL AND IRRADIATION EQUIPMENT: 1985

(Quantity in thousands of units; value in thousands of dollars)

Import number	Product description	Quantity	Value[1]
709.1520	Electrosurgical apparatus, therapeutic	(NA)	14,921
709.1540	Electrosurgical apparatus, other than therapeutic, and parts of electrosurgical apparatus	(NA)	74,899
709.1705	Pacemakers	12	15,754
709.1710	Diathermy units	2	555
709.1715	Ultrasonic therapeutic devices	8	20,568
709.1720	Other electromedical therapeutic apparatus	286	17,511
709.1750	Electrocardiographs	6	7,673
709.1760	Electroencephalographs	1	5,166
709.1765	Complete patient monitoring systems	(NA)	16,176
709.1770	Other electromedical apparatus, other than therapeutic	(NA)	311,875
709.1790	Parts for electromedical apparatus, other than electrosurgical	(NA)	88,101
709.6120	X-ray tubes	30	42,448
709.6140	Parts for X-ray tubes	(NA)	7,842
709.6320	X-ray apparatus for medical or dental use, and parts thereof	(NA)	381,414
709.6340	X-ray apparatus for other than medical or dental use, and parts thereof	(NA)	69,883
709.6620	Medical or dental apparatus based on the use of radioactive substances, and parts thereof	(NA)	20,046
854.1000	Radiation apparatus for nonprofit institutions, duty free	(NA)	(NA)

See footnotes at end of table 6B.

Table 6B. IMPORTS FOR CONSUMPTION OF ELECTROMEDICAL AND IRRADIATION EQUIPMENT: 1984

(Quantity in thousands of units; value in thousands of dollars)

Import number	Product description	Quantity	Value[1]
709.1520	Electrosurgical apparatus, therapeutic	(NA)	3,567
709.1540	Electrosurgical apparatus, other than therapeutic, and parts of electrosurgical apparatus	(NA)	11,262
709.1705	Pacemakers	11	10,159
709.1710	Diathermy units	1	212
709.1715	Ultrasonic therapeutic devices	4	4,879
709.1720	Other electromedical therapeutic apparatus	76	6,662
709.1750	Electrocardiographs	4	9,724
709.1760	Electroencephalographs	1	2,576
709.1765	Complete patient monitoring systems	(NA)	12,850
709.1770	Other electromedical apparatus, other than therapeutic	(NA)	105,081
709.1790	Parts for electromedical apparatus, other than electrosurgical	(NA)	57,435
709.6120	X-ray tubes	25	38,875
709.6140	Parts for X-ray tubes	(NA)	3,889
709.6320	X-ray apparatus for medical or dental use, and parts thereof	(NA)	371,437
709.6340	X-ray apparatus for other than medical or dental use, and parts thereof	(NA)	46,562
709.6620	Medical or dental apparatus based on the use of radioactive substances, and parts thereof	(NA)	11,843
854.1000	Radiation apparatus for nonprofit institution, duty free	(NA)	14,604

(NA) Not available.

[1]Value of imported items includes cost, insurance, freight, and import duties.

Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

Table 7. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION-BASED CODES, SCHEDULE B EXPORT NUMBERS, AND TSUSA IMPORT NUMBERS: 1985 AND 1984

Product code	Product description	Export number	Import number
36931	Irradiation equipment	709.6120 709.6140 709.6320 709.6340 709.6620	709.6120 709.6140 709.6320 709.6340 709.6620 854.1000
36933	Electromedical equipment	709.1605 709.1610 709.1615 709.1620 709.1655 709.1660 709.1665 709.1670 709.1690	709.1520 709.1540 709.1705 709.1710 709.1715 709.1720 709.1750 709.1760 709.1765 709.1770 709.1790

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers all significant manufacturers of electromedical and irradiation equipment (including x-ray). The mailing panel included all establishments with 20 employees or more for industry 3693.

Survey Methodology. The statistics in this publication were collected by mail on Bureau of the Census annual Form MA36R, Electromedical Equipment and Irradiation Equipment (Including X-Ray). The survey panel includes all known manufacturers of electromedical and irradiation equipment, including x-ray except the firms excluded from the scope of the survey (as noted above). Approximately 000 companies are included. No estimate is derived for the small firms excluded from the survey.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, for small companies not included in the mail panel, and for data which fail logic edits. Missing figures are imputed based on yearly movements shown by reporting firms. Imputation generally is limited to a maximum of 15 percent for any one data cell. Figures with imputation rates greater than 15 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 15 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous years may be revised as the result of corrected data from respondents, late reports for which imputations were made as described above, or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Revisions include changes to prior period data resulting from reconciliation of the results of this survey with the 1984 Annual Survey of Manufactures to correct differences in reported data between the two series and to identify and verify new establishments included in the scope of this survey. Table 3 presents a comparison of data from the two series by census product class following the reconciliation.

Adjustment for Price Change. All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Quantity and Value of Shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to a company's own branches are assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Research and Development. Dollar shipments reflect income from development, design, and engineering services performed by the reporting plant in connection with the manufacture of the products shipped, whether included in a single production contract, or contracted for separately, but intended as preparation for the manufacture of the specific products.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classifciation. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output*—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

- *Exports*—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- *Imports*—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for individual import shipments valued at not more than $1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

HISTORICAL NOTE

Data on selected electronic and associated products have been collected by the Bureau of the Census since 1961 on survey MA36N, *Selected Electronics and Associated Products.* In 1985, survey MA36N was divided into three annual surveys: MA36P, *Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment;* MA36Q, *Semiconductors, Printed Circuit Boards, and Other Electronic Components;* and MA36R, *Electromedical Equipment and Irradiation Equipment (Including X-Ray).* Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

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1982 Census of Agriculture

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